**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

1. (CURRENTLY AMENDED) An isolated nucleotide sequence ~~chosen from the group~~ comprising SEQ ID No. 1, SEQ ID No. 2, SEQ ID No. 3, SEQ ID No. 4, SEQ ID No. 5, SEQ ID No. 6, SEQ ID No. 7, SEQ ID No. 8, SEQ ID No. 9, SEQ ID No. 10, SEQ ID No. 11, SEQ ID No. 12, SEQ ID No. 13, SEQ ID No. 14, SEQ ID No. 15, SEQ ID No. 16, SEQ ID No. 17, SEQ ID No. 18, SEQ ID No. 19, SEQ ID No. 20, SEQ ID No. 21, SEQ ID No. 22, SEQ ID No. 23, SEQ ID No. 24, SEQ ID No. 25, SEQ ID No. 26, SEQ ID No. 27 **[[and]]** or SEQ ID No. 28.

2. CANCELLED.

3. CANCELLED.

4. CANCELLED.

5. CANCELLED.

6. CANCELLED.

7. CANCELLED.

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8. (CURRENTLY AMENDED) A method for genotypically diagnosing cavernomas in an individual, ~~characterized in that~~ wherein the method comprises providing a biological sample ~~is taken~~ from said individual, ~~and in that~~ and detecting the presence of a mutation in **[[the]]** a *Krit1* gene ~~is detected by analyzing the~~ nucleic acid sequence present in said sample, ~~such a~~ wherein said mutation **[[being]]** is linked to the occurrence of cavernomas.

9. (CURRENTLY AMENDED) The diagnostic method as claimed in claim 8, ~~characterized in that~~ wherein the nucleic acid sequence is genomic DNA, cDNA or mRNA.

10. (CURRENTLY AMENDED) The diagnostic method as claimed in ~~either of claims~~ claim 8 **[[and 9]]**, ~~characterized in that~~ wherein said ~~analysis~~ detecting ~~is carried out by~~ comprises hybridization.

11. (CURRENTLY AMENDED) The diagnostic method as claimed in ~~one of claims~~ claim 8 **[[to 10]]**, ~~characterized in that~~ wherein said ~~analysis~~ detecting ~~is carried out by~~ comprises sequencing.

12. (CURRENTLY AMENDED) The diagnostic method as claimed in ~~either of claims~~ claim 8 **[[and 9]]**, ~~characterized in that~~ wherein said ~~analysis~~ detecting ~~is carried out by~~ comprises ~~electrophoretic migration, and more particularly by~~ SSCP or DGGE.

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13. (CURRENTLY AMENDED) The diagnostic method as claimed in ~~either of claims~~ claim 8 **[[and 9]]**, ~~characterized in that~~ wherein said ~~analysis~~ detecting ~~is carried out by~~ comprises detecting ~~methodology aimed at detecting~~ the truncation of a protein.

14. (CURRENTLY AMENDED) The diagnostic method as claimed in ~~one of claims~~ claim 8 **[[to 13]]**, ~~characterized in that~~ wherein all or part of the nucleic acid sequence corresponding to the *Krit1* gene is amplified prior to detecting the presence of a mutation.

15. (CURRENTLY AMENDED) The diagnostic method as claimed in claim 14, ~~characterized in that~~ wherein the amplification is carried out by PCR or PCR-like amplification.

16. (CURRENTLY AMENDED) The diagnostic method as claimed in claim 15, ~~characterized in that~~ wherein ~~the primers for carrying out~~ the amplification ~~are from the sequences defined in claim 1, preferably in claim 5~~ is primed by a pair of nucleotide sequences according to claim 1.

17. CANCELLED.

18. CANCELLED.

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19. (CURRENTLY AMENDED) A vector for expression in a suitable host cell, ~~characterized in that it~~ wherein the vector comprises a sequence of the *Krit1* gene or a sequence derived from the *Krit1* gene.

20. (CURRENTLY AMENDED) The expression vector as claimed in claim 19, ~~characterized in that it~~ wherein the vector comprises **[[the]]** elements required for the overexpression of the sequence.

21. (CURRENTLY AMENDED) The vector as claimed in claim **[[19 or]]** 20, ~~intended for use as claimed in either of claims 17 and 18~~ wherein the vector is a gene therapy vector.

22. (CURRENTLY AMENDED) The vector as claimed in ~~one of claims~~ claim 19 ~~to 21, characterized in that it~~ , wherein the vector further comprises a sequence for tissue-specific targeting and/or expression.

23. (CURRENTLY AMENDED) A therapeutic composition, ~~characterized in that it comprises, as active principle, at least~~ comprising ~~all or part of the~~ normal or modified Krit1 protein.

24. CANCELLED.

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25. (NEW) The diagnostic method as claimed in claim 16, wherein the pair of nucleotide sequences is

SEQ ID No. 1 and SEQ ID No. 2,
SEQ ID No. 3 and SEQ ID No. 4,
SEQ ID No. 5 and SEQ ID No. 6,
SEQ ID No. 7 and SEQ ID No. 8,
SEQ ID No. 9 and SEQ ID No. 10,
SEQ ID No. 11 and SEQ ID No. 12,
SEQ ID No. 13 and SEQ ID No. 14,
SEQ ID No. 15 and SEQ ID No. 16,
SEQ ID No. 17 and SEQ ID No. 18,
SEQ ID No. 19 and SEQ ID No. 20,
SEQ ID No. 21 and SEQ ID No. 22,
SEQ ID No. 23 and SEQ ID No. 24,
SEQ ID No. 25 and SEQ ID No. 26, or
SEQ ID No. 27 and SEQ ID No. 28.

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